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Terms	Documents
L7 and (N-terminal and fibrin binding domain)	264

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IBM Technical Disclosure Bulletins

Refine Search:

L7 and (N-terminal and fibrin binding domain)

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USPT	L7 and (N-terminal and fibrin binding domain)	264	L10
USPT	L6 and (N-terminal and fibrin binding domain)	458	L9
USPT	L6 and fibrin containing substance	1124798	L8
USPT	L6 and (thrombus or atherosclerotic plaque)	272	L7
USPT	L4 and fibrin	498	L6
USPT	L4 and (L1 or fibrin)	2193	L5
USPT	L1 and (marker or image or isotope or label)	2193	L4
USPT	L2 not L1	174782	L3
USPT	fibrin binding domain\$	178109	L2
USPT	fibronectin\$	3975	L1

=> d his

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FILE 'BIOSIS, EMBASE, MEDLINE, SCISEARCH, LIFESCI, CAPLUS' ENTERED AT
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L1 96041 S FIBRONECTIN
L2 31 S L1 AND (N-TERMINAL AND FIBRIN BINDING DOMAIN)
L3 3979 S L1 AND (MARKER OR IMAGE OR ISOTOPE OR LABEL)
L4 2707 S L1 AND FIBRIN
L5 31 S L4 AND (N-TERMINAL AND FIBRIN BINDING DOMAIN)
L6 118 S L4 AND (THROMBUS OR ATHEROSCLEROTIC PLAQUE)
L7 2 S L5 AND L6

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L8 96041 S FIBRONECTIN
L9 84300 S FIBRIN
L10 17 S L9 AND (N-TERMINAL FIBRIN BINDING DOMAIN)
L11 1917 S L9 AND (MARKER OR IMAGE OR ISOTOPE OR LABEL)
L12 927 DUP REM L11 (990 DUPLICATES REMOVED)
L13 116 S L12 AND (THROMBUS OR ATHEROSCLEROTIC PLAQUE)
L14 0 S L12 AND (N-TERMINAL FIBRIN BINDING DOMAIN)
L15 0 S L10 AND L13
L16 0 S L2 AND L12
L17 0 S L2 AND L13

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09-047,661 8/11/00

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Files
NEWS 4 Oct 27 SET ABBREVIATIONS and SET PLURALS extended in
Derwent World Patents Index files
NEWS 5 Oct 27 Patent Assignee Code Dictionary now available
in Derwent Patent Files
NEWS 6 Oct 27 Plasdoc Key Serials Dictionary and Echoing added to
Derwent Subscriber Files WPIDS and WPIX
NEWS 7 Nov 29 Derwent announces further increase in updates for DWPI
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biotechnology
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*CFR - Code of Federal Regulations 1997 - present
*CHEMCATS - CHEMICAL CATALOGS ONLINE 1993-1997

* The files listed above are temporarily unavailable.

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=> File biosis, embase, medline, scisearch, lifesci, caplus

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=> s fibronectin

=> s fibronectin

L1 96041 FIBRONECTIN

=> s L1 and (N-terminal and fibrin binding domain)

L2 31 L1 AND (N-TERMINAL AND FIBRIN BINDING DOMAIN)

=> s L1 and (marker or image or isotope or label)

L3 3979 L1 AND (MARKER OR IMAGE OR ISOTOPE OR LABEL)

=> s L1 and fibrin

L4 2707 L1 AND FIBRIN

=> s L4 and (N-terminal and fibrin binding domain)

L5 31 L4 AND (N-TERMINAL AND FIBRIN BINDING DOMAIN)

=> s L4 and(thrombus or atherosclerotic plaque)

L6 118 L4 AND(THROMBUS OR ATHEROSCLEROTIC PLAQUE)

=> s L5 and L6

L7 2 L5 AND L6

=> d his

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FILE 'BIOSIS, EMBASE, MEDLINE, SCISEARCH, LIFESCI, CAPLUS' ENTERED AT
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L1 96041 S FIBRONECTIN

L2 31 S L1 AND (N-TERMINAL AND FIBRIN BINDING DOMAIN)

L3 3979 S L1 AND (MARKER OR IMAGE OR ISOTOPE OR LABEL)

L4 2707 S L1 AND FIBRIN
L5 31 S L4 AND (N-TERMINAL AND FIBRIN BINDING DOMAIN)
L6 118 S L4 AND (THROMBUS OR ATHEROSCLEROTIC PLAQUE)
L7 2 S L5 AND L6

=> d L7 1-2 bib kwic

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2000 ACS
AN 1997:277041 CAPLUS
DN 127:31973

TI Recombinant polypeptides derived from the **fibrin binding domain of fibronectin** are potential agents for the imaging of blood clots

AU Ezov, N.; Nimrod, A.; Parizada, B.; Werber, M. M.; Goldlust, A.; Greenstein, L. A.; Vogel, T.; Drizlich, N.; Levanon, A.; Reich, S.; Gorecki, M.; Panet, Amos

CS Bio-Technology General, Rehovot, 76326, Israel

SO Thromb. Haemostasis (1997), 77(4), 796-803

CODEN: THHADQ; ISSN: 0340-6245

PB Schattauer

DT Journal

LA English

TI Recombinant polypeptides derived from the **fibrin binding domain of fibronectin** are potential agents for the imaging of blood clots

AB **Thrombus** formation in the circulation is accompanied by covalent linkage of **fibronectin** (FN) through transglutamination of GLN-3 in the **fibrin binding N-terminal domain** (FBD) of FN. This phenomenon was exploited for **thrombus** detection by the employment of radioactively-labeled recombinant polypeptide mols. derived from the 5-finger FBD of human FN. Three recombinant FBD polypeptides, 12 kDa ("2 fingers"), 18.5 kDa ("3 fingers"), and 31 kDa FBD ("5 fingers"), were prepd. and compared to native FN-derived 31 kDa-FBD with respect to their ability to attach to **fibrin** clots in vitro and in vivo. The accessibility of Gln-3 in these mols. was demonstrated by the incorporation of stoichiometric amts. of 14C-putrescine in the presence of plasma transglutaminase.

Competitive

binding expts. to **fibrin** have indicated that, although the binding affinities of the FBD mols. are lower than that of FN, substantial

covalent linkage was obtained in the presence of transglutaminase, and in the presence of excess FN or heparin. The biol. clearance rates of labeled FBD mols. in rats and rabbits were much higher than those of FN and fibrinogen. The 12 kDa FBD exhibited the highest rate of clearance. The potential of the 12 kDa and 31 kDa FBDs as imaging agents was examd. in a stainless steel coil-induced **thrombus** model in rats and in a jugular vein **thrombus** model in rabbits. At 24 h, clot-to-blood ratios ranged between 10-22 for [125I]-12 kDa FBD and 40-60 for [111In]-12 kDa FBD. In the rat model, heparin did not inhibit the uptake of FBD.

ST **fibronectin fibrin fibrinogen thrombus**

IT Fibrins

RL: BAC (Biological activity or effector, except adverse); PRP (Properties); BIOL (Biological study)

(competitive inhibition of biotinylated r12 kDa **fibrin binding domain** binding to **fibrin**)

IT **Thrombus**

(**fibrin binding N-terminal domain** of **fibronectin** for **thrombus** detection)

IT Proteins (specific proteins and subclasses)

RL: BAC (Biological activity or effector, except adverse); BOC (Biological

occurrence); BIOL (Biological study); OCCU (Occurrence)

(**fibronectin-binding**, 12 kDa, 18.5 kDa, 31 kDa polypeptides;

fibrin binding N-terminal domain of fibronectin for thrombus detection)

IT Fibronectins
 RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BIOL (Biological study); OCCU (Occurrence) (role of **thrombus** formation)

IT 80146-85-6, Transglutaminase
 RL: BPR (Biological process); BIOL (Biological study); PROC (Process) (competitive inhibition of biotinylated r12 kDa **fibrin binding domain** binding to **fibrin**)

IT 9005-49-6, Heparin, biological studies
 RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study) (effect of heparin on the binding of 12 kDa **fibrin binding N-terminal domain of fibronectin** to blood clots)

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2000 ACS
 AN 1991:137413 CAPLUS
 DN 114:137413
 TI Cloning of gene for human **fibronectin** analogs, its recombinant manufacture, and pharmaceuticals contg. same
 IN Vogel, Tikva; Levanon, Avigdor; Werber, Moshe; Guy, Rachel; Panet, Amos
 PA Bio-Technology General Corp., USA
 SO PCT Int. Appl., 295 pp.
 CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 9007577	A1	19900712	WO 1989-US5875	19891229
	W: AU, DK, FI, JP, KR, NL				
	RW: AT, BE, CH, DE, ES, FR, GB, IT, LU, NL, SE				
	CA 2006929	AA	19900629	CA 1989-2006929	19891229
	AU 9049598	A1	19900801	AU 1990-49598	19891229
	AU 636596	B2	19930506		
	EP 451211	A1	19911016	EP 1990-902086	19891229
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE				
	JP 04505698	T2	19921008	JP 1990-502804	19891229
	JP 3095771	B2	20001010		
	DK 9101280	A	19910829	DK 1991-1280	19910628
	US 5455158	A	19951003	US 1993-58241	19930504
	US 5679320	A	19971021	US 1994-259569	19940614
	US 5965383	A	19991012	US 1995-409750	19950324
	US 5869616	A	19990209	US 1997-826885	19970408
	US 6121426	A	20000919	US 1997-909140	19970811

PRAI US 1988-291951 19881229
 US 1989-345952 19890428
 CA 1989-2006929 19891229
 WO 1989-US5875 19891229
 US 1990-526397 19900521
 US 1991-703842 19910521
 US 1993-58241 19930504
 US 1994-259569 19940614
 US 1995-409750 19950324

TI Cloning of gene for human **fibronectin** analogs, its recombinant manufacture, and pharmaceuticals contg. same

AB **Fibronectin** fragments contg. the cell-binding domain or the **fibrin-binding domain** for use inter alia as platelet-aggregation inhibitors, in wound healing and in the prevention

of iatrogenic infections are manufd. by expression of a cDNA encoding the domain in Escherichia coli. These fragments are not necessarily the same as those derived by proteolysis of **fibronectin**. A

fibronectin cDNA was cloned from a human liver cDNA bank in .lambda.gt11 using oligonucleotides probes for regions of the **N-terminal** and cell-binding domains. After recovery of the complete sequence the regions encoding individual domains were subcloned and expressed in *E. coli*. In platelet aggregation inhibition assays a 40 kilodalton cell-binding domain inhibited aggregation 40% at 0.5 .mu.M.

- In the same assay the pentapeptide GRGDS was as effective at 25 .mu.M. The 31 kilodalton **fibrin-binding domain** was shown to bind to *Staphylococcus aureus* as effectively as the comparable proteolytic fragment.
- ST **fibronectin** cDNA cloning expression *Escherichia*; platelet aggregation inhibitor recombinant **fibronectin**; wound healing recombinant **fibronectin** fragment; bacterial colonization inhibitor recombinant **fibronectin**; catheter coating recombinant **fibronectin** fragment
- IT Gene and Genetic element, animal
RL: BIOL (Biological study)
(cDNA, for **fibronectin** of cell- and **fibrin**-binding domains, of human, cloning and expression in *Escherichia coli* of,)
- IT Fibronectins
RL: BIOL (Biological study)
(cell- and **fibrin**-binding domains of, for therapeutic uses, recombinant manuf. of, cloning of **fibronectin** cDNA in *Escherichia coli* in relation to)
- IT *Escherichia coli*
(cloning and expression in, of **fibronectin** cell- and **fibrin-binding domain** cDNAs, of human)
- IT Blood-coagulation factors
Interferons
RL: BIOL (Biological study)
(conjugates with **fibronectin** domain peptides, pharmaceutical uses of)
- IT Neoplasm
Thrombus and Blood clot
(detection of, **fibronectin** domains for, recombinant manuf. of)
- IT Wound healing
(**fibronectin** derivs. for treatment of, recombinant manuf. of)
- IT Fibrins
RL: BIOL (Biological study)
(**fibronectin** domain binding, analogs of, recombinant manuf. of)
- IT Fermentation
(**fibronectin** domain-contg. polypeptides, with recombinant *Escherichia coli*)
- IT Blood platelet aggregation inhibitors
(**fibronectin** domains as, recombinant manuf. of)
- IT Bacteria
Staphylococcus aureus
(**fibronectin** domains binding to, 31,000 mol.-wt., recombinant manuf. of)
- IT Thrombolytics
(**fibronectin** domains conjugated fibrinolytic enzymes as)
- IT Extracellular matrix
(**fibronectin fibrin-binding domain** binding to)
- IT Burn
(healing of, stimulation of, **fibronectin** domains for, recombinant manuf. of)
- IT Molecular cloning
(of **fibronectin** cDNA, of human, in *Escherichia coli*)
- IT Drug bioavailability
(of **fibronectin** domain peptides, of human, in rats)
- IT Thromboxanes
RL: BIOL (Biological study)

(release from platelets of, inhibition of, **fibronectin** derivs. for)

IT Eye, disease or disorder
Tendon
(wounding of, healing of, stimulation of, **fibronectin** domains for, recombinant manuf. of)

IT Heart, disease or disorder
(angina pectoris, **fibronectin** derivs. for treatment of, recombinant manuf. of)

IT Artery, disease or disorder
(angioplasty, recovery from, platelet aggregation inhibition in, **fibronectin** domains and conjugates for)

IT Animal growth regulators
RL: BIOL (Biological study)
(blood platelet-derived growth factors, conjugates with **fibronectin** domain peptides, pharmaceutical uses of)

IT Medical goods
(catheters, as route for infection, **fibronectin** domains as coating for prevention of)

IT Brain, disease or disorder
(cerebrovascular, treatment of, use of **fibronectin** domains as platelet-aggregation inhibitors in)

IT Albumins, compounds
RL: BIOL (Biological study)
(conjugates, with **fibronectin** domain peptides, pharmaceutical uses of)

IT Eye, disease or disorder
(cornea, epithelium, wounding of, healing of, stimulation of, **fibronectin** domains for, recombinant manuf. of)

IT Eye, disease or disorder
(cornea, stroma, wounding of, healing of, stimulation of, **fibronectin** domains for, recombinant manuf. of)

IT Cardiovascular system
(disease, **fibronectin** derivs. for treatment of, recombinant manuf. of)

IT Circulation
(extracorporeal, cardiopulmonary bypass, recovery from, platelet aggregation inhibition in, **fibronectin** domains and conjugates for)

IT Animal growth regulators
RL: BIOL (Biological study)
(fibroblast-derived growth factors, conjugates with **fibronectin** domain peptides, pharmaceutical uses of)

IT Deoxyribonucleic acid sequences
(**fibronectin**-specifying, of human, complete)

IT Heart, disease or disorder
(infarction, acute, **fibronectin** derivs. for treatment of, recombinant manuf. of)

IT Lymphokines and Cytokines
RL: BIOL (Biological study)
(interleukins, conjugates with **fibronectin** domain peptides, pharmaceutical uses of)

IT Plasmid and Episome
(pFN126-3, gene for human **fibronectin** domain on, expression in *Escherichia coli* of)

IT Plasmid and Episome
(pFN132-5, gene for human **fibronectin** domain on, expression in *Escherichia coli* of)

IT Plasmid and Episome
(pFN137-2, gene for human **fibronectin** domain on, expression in *Escherichia coli* of)

IT Plasmid and Episome
(pFN949-2, gene for human **fibronectin** domain on, expression in *Escherichia coli* of)

IT Plasmid and Episome
(pFN975-25, gene for human **fibronectin** domain on, expression

in Escherichia coli of)

IT Skin, disease or disorder
(transplant, healing of, stimulation of, **fibronectin** domains
for, recombinant manuf. of)

IT Lymphokines and Cytokines
RL: BIOL (Biological study)
(tumor necrosis factor, conjugates with **fibronectin** domain
peptides, pharmaceutical uses of)

IT Animal growth regulators
RL: BIOL (Biological study)
(.alpha.-transforming growth factors, conjugates with
fibronectin domain peptides, pharmaceutical uses of)

IT Animal growth regulators
RL: BIOL (Biological study)
(.beta.-transforming growth factors, conjugates with
fibronectin domain peptides, pharmaceutical uses of)

IT 9002-01-1D, Streptokinase, conjugates with **fibronectin** domain
peptides 9039-53-6D, Urokinase, conjugates with **fibronectin**
domain peptides 81669-57-0D, Eminase, conjugates with
fibronectin domain peptides 82657-92-9D, Prourokinase,
conjugates with **fibronectin** domain peptides
RL: PRP (Properties)
(as thrombolytic)

IT 80146-85-6, Transglutaminase
RL: PRP (Properties)
(binding of **fibronectin** domain polypeptides to **fibrin**
stimulation by)

IT 9001-27-8D, Blood-coagulation factor VIII, conjugates with
fibronectin domain peptides 9013-56-3D, Blood-coagulation factor
XIII, conjugates with **fibronectin** domain peptides 9054-89-1D,
Superoxide dismutase, conjugates with **fibronectin** domain
peptides 11096-26-7D, Erythropoietin, conjugates with
fibronectin domain peptides 25322-68-3D, conjugates with
fibronectin domain peptides 62229-50-9D, Epidermal growth
factor, conjugates with **fibronectin** domain peptides
62683-29-8D, Colony-stimulating factor, conjugates with
fibronectin domain peptides 81627-83-0D, Colony-stimulating
factor 1, conjugates with **fibronectin** domain peptides
83869-56-1D, Colony-stimulating factor 2, conjugates with
fibronectin domain peptides
RL: PRP (Properties)
(pharmaceutical uses of)

IT 57576-52-0, Thromboxane A2
RL: PRP (Properties)
(release from platelets of, inhibition of, **fibronectin**
derivs. for)

IT 105913-11-9D, Plasminogen activator, conjugates with **fibronectin**
domain peptides
RL: PRP (Properties)
(tissue-type, as thrombolytic)

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=> s fibronectin

L8 96041 FIBRONECTIN

=> s fibrin

L9 84300 FIBRIN

=> s L9 and (N-terminal fibrin binding domain)

L10 17 L9 AND (N-TERMINAL FIBRIN BINDING DOMAIN)

=> s L9 and (marker or image or isotope or label)

L11 1917 L9 AND (MARKER OR IMAGE OR ISOTOPE OR LABEL)

=> dup rem L11

PROCESSING IS APPROXIMATELY 46% COMPLETE FOR L11

PROCESSING IS APPROXIMATELY 84% COMPLETE FOR L11

PROCESSING COMPLETED FOR L11

L12 927 DUP REM L11 (990 DUPLICATES REMOVED)

=> L12 and (thrombus or atherosclerotic plaque)

L12 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

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"HELP COMMANDS" at an arrow prompt (=>).

=> s L12 and (thrombus or atherosclerotic plaque)

L13 116 L12 AND (THROMBUS OR ATHEROSCLEROTIC PLAQUE)

=> s L12 and (N-terminal fibrin binding domain)

L14 0 L12 AND (N-TERMINAL FIBRIN BINDING DOMAIN)

=> s L10 and L13

L15 0 L10 AND L13

=> s L2 and L12

L16 0 L2 AND L12

=> s L2 and L13

L17 0 L2 AND L13